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PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference P03038	FOR FURTHER ACTION	See Form PCT/IPEA/416							
International application No. PCT/NO2004/000350	International filing date (day/month/year 15.11.2004	Priority date (day/month/year) 26.11.2003							
International Patent Classification (IPC) or na C25C3/06									
Applicant NORSK HYDRO ASA et al.									
This report is the international preliminary examination report, established by this International Preliminary Authority under Article 35 and transmitted to the applicant according to Article 36.									
2. This REPORT consists of a total of	. This REPORT consists of a total of 4 sheets, including this cover sheet								
3. This report is also accompanied by	This report is also accompanied by ANNEXES, comprising:								
a. 🛘 sent to the applicant and to	the International Bureau) a total of	sheets, as follows:							
and/or sheets containin	 sheets of the description, claims and/or drawlings which have and/or sheets containing rectifications authorized by this Au Administrative Instructions). 								
sheets which supersed beyond the disclosure i Supplemental Box.	rity considers contain an amendment that goes d, as indicated in item 4 of Box No. I and the								
b. (sent to the International Busequence listing and/or table Box Relating to Sequence L	nd number of electronic carrier(s)) , containing a able form only, as indicated in the Supplemental strative Instructions).								
4. This report contains indications rela	ating to the following items:								
☑ Box No. I Basis of the opini	ion								
☐ Box No. II Priority									
☐ Box No. III Non-establishme	nt of opinion with regard to novelty, i	nventive step and industrial applicability							
☐ Box No. IV Lack of unity of ir	nvention								
	novelty, inventive step or industrial								
Box No. VI Certain documen		; ·							
Box No. VII Certain defects in	; i								
Box No. VIII Certain observations on the international application									
Date of submission of the demand	Date of comple	tion of this report							
13.06.2005	02.09.2005								
Name and mailing address of the international preliminary examining authority:	Authorized Offi	COT							
European Patent Office D-80298 Munich	Hammerstei	in, G							
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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/NO2004/000350

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INTERNATIONAL PRELIMINARY REPORT **ON PATENTABILITY**

International application No. PCT/NO2004/000350

Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

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Novelty (N)

Yes: Claims

No:

1-10

Yes: Claims

Claims

1-10

Inventive step (IS)

No: Claims

Industrial applicability (IA)

Claims Yes:

1-10

No: Claims

() 2. Citations and explanations (Rule 70.7):

see separate sheet

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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (SEPARATE SHEET)

International application No.

PCT/NO2004/000350

Re Item V

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Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

The document US-A-4221641 is regarded as being the closest prior art to the subject-matter of claims 1 and 4 in that it discloses (column 3, line 7 to column 4, line 60 and column 8, line 55 to column 9, line 3) a method and apparatus for replacing spent anodes in an aluminium electrolysis cell. The apparatus comprises a crane and gripping means for removing and inserting the anodes and an optical passage detector for detecting the presence of the anode at particular levels. From the difference in levels the insertion height of the new anode can be determined. A laser beam may be used as an additional optical detector.

The feature distinguishing the subject-matter of claims 1 and 4 is the equipment for determining the length of the spent anode and the new anode and the combination with a PLC to determine the insertion height of the new anode from the measured data.

The subject-matter of independent claims 1 and 4 is therefore new (Article 33(2) PCT).

The problem to be solved by the present invention may be regarded as providing a precise positioning equipment which is interfaceable with a microprocessor.

The solution to this problem proposed in claims 1 and 4 of the present application is considered as involving an inventive step (Article 33(3) PCT) since it is not suggested by the prior art documents.

Claims 2-3 and 5-10 are dependent on claims 1 and 4 and as such also meet the requirements of the PCT with respect to novelty and inventive step.

It would appear that the present application rightfully claims its priority date such that US2004/0211663 is not considered as state of the art relevant under Article 33 PCT.